

\* SWBAT apply Newton's 3rd Law

Sep 6-2:31 PM

# Welcome!!!

SECA Physics  
Thursday 30 October 2014

H. Leslie Grebe

- \* Pick up:
  - slip of paper (for later)

Centering...

Opening Question:

Are action/reaction pairs on one object or two different objects?

ALWAYS DIFFERENT  
OBJECTS

FOOT KICKS BALL



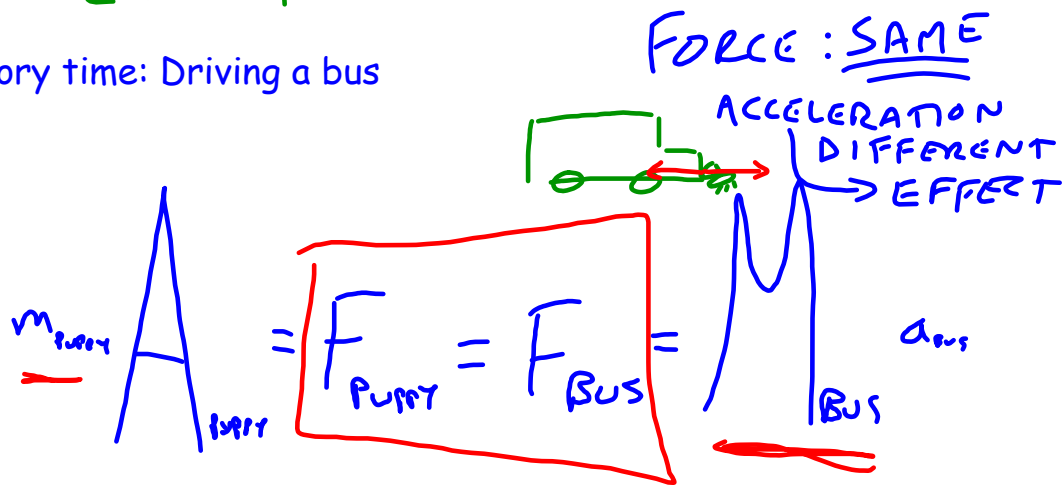
BALL HITS FOOT

Sep 7-7:04 AM

## Newton's 3rd Law

FOR EVERY ACTION FORCE THERE IS AN  
EQUAL & OPPOSITE REACTION FORCE

Story time: Driving a bus



Sep 21-2:13 PM

And now a dramatic reading...

Farmer, horse, and cart

YES  $F_{\text{HORSE}} = F_{\text{CART}}$   
BUT FORCE ON GROUND  
LEADS TO MOTION

Video...



FIGURE 7.3 ▲  
When the girl jumps to shore,  
the boat moves backward.

Sep 21-2:13 PM

## Outrageous Acts of Science

A show about viral videos and the science that makes them possible...

### Death by Mentos

Dukes of Havoc #6

1. Just watch
2. Read the questions
3. Watch again
4. Discuss
5. Watch a last time to catch anything you might have missed



Oct 4-7:27 AM

### Daily 3 Questions

- \* Every day except test/project days
- \* 3 Questions on the topics of the day
- \* Main source of daily points
- \* I am happy to give credit when I have no concerns about someone giving or getting help with the answers.

CP Homework - action/  
reaction pair example

You can't get your points if you don't have your **NAME!!!**

Name	Period
1.	
2.	
3.	

Sep 9-7:32 AM

1. Action / reaction force pairs happen
  - a. on **one** object
  - ☒ b. on **different** objects
  - c. don't happen
  
2. The horse will be able to pull the cart because
  - ☒ a. the force on the ground is what pushes the horse forward
  - b. the force on the cart is greater than the force of the cart on the horse
  - c. The horse can't pull the cart because of Newton's 3rd Law
  
3. When the bus hit the puppy, compared to the force the bus made on the puppy, the puppy
  - ☒ a. made the **same size** force on the bus
  - b. made a **smaller** force on the bus
  - c. made a **bigger** force on the bus

Sep 14-7:28 AM